**Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the application:

**Listing of Claims:**

17. (New) An optical cross-connect equipment for connecting transmission paths for optical signals, comprising:

a plural number of first transmission apparatuses, being provided corresponding to a plural number of first optical signal transmission paths, one by one, for receiving optical signals from said first optical signal transmission paths corresponding thereto;

a plural number of second transmission apparatuses, being provided corresponding to a plural number of second optical signal transmission paths, one by one, for transmitting optical signals to said second optical signal transmission paths corresponding thereto; and

an optical circuit being able to transmit the optical signals output from said first transmission apparatuses to an arbitrary one of said second transmission apparatuses, wherein each of said first transmission apparatuses, comprises:

a first wavelength demultiplexer for dividing the optical signal received from said first optical signal transmission path into an optical signal of a first wavelength and other optical signals having wavelengths other than that, thereby providing the optical signals of the wavelengths other than said first wavelength as an output to said optical circuit; and

a receiver for converting said optical signal of said first wavelength, which is separated from within said first wavelength demultiplexer, into an electric signal, and wherein each of said

second transmission apparatuses, comprises:

a light source for outputting an optical signal of said first wavelength; and

a first wavelength multiplexer for multiplexing the optical signals having the wavelengths other than said first wavelength, which are output from said optical circuit, and the optical signal of said first wavelength, which is transmitted from said light source.

18. (New) The optical cross-connect equipment, as described in the claim 17, further comprising:

a controller for receiving and processing the electric signals converted within said receivers, thereby outputting said processed electric signals to said light source, wherein

said light source converts the electric signals output from said controller into the optical signal of said first wavelength.

19. (New) The optical cross-connect equipment, as described in the claim 18, wherein said first wavelength has a wavelength band of 1.3 μm or 1.5 μm or wavelength of 1.48 μm

20. (New) The optical cross-connect equipment, as described in the claim 19, further comprising:

a second wavelength demultiplexer positioned between said first transmission apparatus and said optical circuit; and

a second multiplexer positioned between said optical circuit and said second

transmission apparatus, wherein the optical signals having the wavelengths other than said first wavelength, which are output from said first transmission apparatuses, make up a first wavelength multiplexed signal, with a plural number of optical signals, each having a different wavelength thereof, and said second wavelength demultiplexer divides said first wavelength multiplexed optical signal into a plural number thereof, each being different in the wavelength thereof, thereby outputting them to said optical circuit, and

said second wavelength multiplexer multiplexes the plural number of the optical signals, each having the different wavelength thereof, which are output from said optical circuit, thereby providing a second wavelength multiplexed optical signal, thereby outputting said second wavelength multiplexed optical signal to said second transmission apparatus.

21. (New) The optical cross-connect equipment, as described in the claim 20, further having at least one regenerator between said second wavelength demultiplexer and said optical circuit.

22. (New) The optical cross-connect equipment, as described in the claim 20, further having at least one optical amplifier between said optical circuit and said second wavelength multiplexer.